

## ABSTRACT

## METHOD FOR TRAINING RECEIVING MODEMS

A method for training a receiving modem is disclosed. The receiving modem can be trained by a sending modem via a four-segment training procedure. During segment 1 training, the sending modem waits for silence on a transmission line between the sending modem and the receiving modem for 48 symbol intervals. Then, the sending modem performs segment 2 training by sending alternating AB symbols to the receiving modem for 64 symbol intervals. During segment 3 training, the sending modem sends CD symbols to the receiving modem for 64 symbol intervals in order to train an equalizer within the receiving modem. During segment 4 training, the sending modem continues to train the equalizer within the receiving modem by sending scrambled binary "1" symbols to the receiving modem for 48 symbol intervals. After a successful completion of the segment 4 training, the receiving modem can change to a data mode to begin detecting and receiving data from the sending modem.